

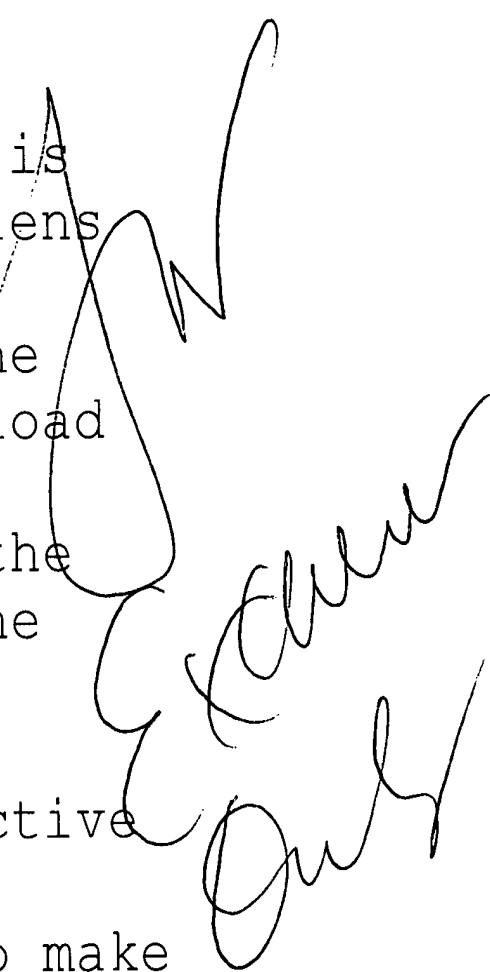
US-PAT-NO: 6487163

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TITLE: Optical disk and optical
disk apparatus

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The NA of the objective lens is limited by ease of making a lens and the tilt angle between the lens and the disk. The smaller the lens load (the thinner the optical disk substrate, the smaller the lens load) and the smaller the NA, the easier it is to make the objective lens. For an objective lens whose NA is nearly 0.6, it is possible to make the beam spot diameter smaller even with a single nonspherical lens. However



with an objective lens used in the reproduction optical system for the optical disk, coma aberration occurs due to the tilt between the optical disk and the reproduction light beam caused by the tilt of the optical disk or the tilt of the optical axis of the objective lens.

L Number	Hits	Search Text	DB	Time stamp
1	72	(coma near2 aberration) and DVD and CD	USPAT	2002/12/12 15:11

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